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## Science Notes - Applications Invited for Project ESTEEM

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## SCIENCE NOTES

### Applications Invited for Project ESTEEM

Project ESTEEM (Earth Science Teachers Exploring Exemplary Materials) will hold another summer workshop for teachers at Harvard University's Center for Astrophysics in Cambridge, Massachusetts, July 3-26, 1992. The goal of Project ESTEEM is to develop a nation-wide network of earth-science resource agents to promote an increase in activity-based teaching in American schools. Forty earth-science teachers from across the U.S. will be selected to participate.

During the summer workshop, participants will examine and refine existing earth-science activities, present mini-workshops to other participants and receive content updates from recognized experts in the earth-science field. Following completion of the summer program, participants will present workshops for other teachers in their home areas, states or regions.

Selection will be based on the following criteria:

- experience in teaching earth science at the pre-college level,
- a record of involvement with science and/or science teaching organizations,
- experience in conducting workshops for teachers,
- evidence of creativity in developing earth-science teaching materials,
- letters of support and recommendation from school administrators,
- familiarity with Apple or MacIntosh computers.

To obtain more information or an application, contact Dr. Darrel Hoff, Harvard-Smithsonian Center for Astrophysics, 60 Garden St., Cambridge, MA 02138, ph. (617) 495-9798.

### Flinn Scientific Offers Chemistry Demonstrations

Flinn Scientific is offering, free to educators, a series of demonstrations and experiments called Chem Fax. Chem Fax are designed to excite students' interest in chemistry and physical science while teaching them basic chemistry concepts.

Three demonstrations are currently available. The first describes how to make ink "disappear" by manipulating the pH of a solution containing an indicator sensitive to pH changes. The second describes how to prepare "canned heat" by mixing calcium acetate and alcohol. In the third experiment, students can make a copper-coated test tube by means of a redox reaction in which  $\text{Cu}^{2+}$  (aq) is reduced to metallic Cu (s).

To receive copies of Chem Fax experiments, write to Free Chem Fax Demonstration/Experiments, Flinn Scientific, Inc., P.O. Box 219, Batavia, IL 60510.

—J.M.H.